

Title (en)

Coaxial applicators for electrodeless high intensity discharge lamps

Title (de)

Koaxiale Anschlussvorrichtungen von elektrodenlosen Entladungslampen hoher Intensität

Title (fr)

Applicateurs coaxiaux des lampes sans électrodes à forte décharge

Publication

**EP 0940842 A3 20000202 (EN)**

Application

**EP 99103026 A 19990216**

Priority

- US 7663198 P 19980303
- US 23386799 A 19990119

Abstract (en)

[origin: EP0940842A2] An electrodeless lamp assembly (10) includes an electrodeless, high intensity discharge lamp capsule (12) and a coaxial electric field applicator (16). The coaxial electric field applicator (16) includes an outer conductor assembly (30) including a tubular outer conductor (34) having a distal end (342) disposed at or near a first end of the lamp capsule (12), an outer ring (36) disposed at or near a second end of the lamp capsule (12), and a plurality of cage wires (40) connected between the outer ring (36) and the tubular outer conductor (34). A center conductor assembly (28) includes a center conductor (32) coaxially positioned with respect to the tubular outer conductor (34) and has a distal end (322) disposed at or near the first end of the lamp capsule (12). High frequency power, supplied to the tubular outer conductor (34) and the center conductor (32), is coupled by the electric field applicator (16) to the lamp capsule (12). The center conductor assembly (28) may include a guard ring (210) positioned near the first end of the lamp capsule (12) for concentrating electric fields in the lamp capsule (12). <IMAGE>

IPC 1-7

**H01J 65/04**; **H05B 41/24**

IPC 8 full level

**H01J 65/04** (2006.01); **H05B 41/24** (2006.01)

CPC (source: EP US)

**H01J 65/044** (2013.01 - EP US); **H05B 41/24** (2013.01 - EP US)

Citation (search report)

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DOCDB simple family (application)

**EP 99103026 A 19990216**; CA 2260466 A 19990127; HU P9900437 A 19990222; JP 5416399 A 19990302; US 23386799 A 19990119